	- 1 l Weiterwood
70 1)	Differentieite Between Informed & Unitormed
	scorch.
	Intermed secreta: Unitermed secreta
	It is also known as Heuris-Ditis also known as Blind
	L' scoret
7)	The una knowledge for the 2) It doesn't use knowledge
	scarehing orders tor the secretary process
3)	It finds a solution more quick 3) It finds solution slow
	as compared to an intermed
	seorely.
4)	It may or may not be 4) It always complete
	complete
<u> </u>	Cost is low
6)	It consumes loss time because 6) It consumes moderate
	of quicle scarching time because of slow
	of quiele scareling time because of slow
	There is a given direction ?) No suggestion is given.
	about the solution regarding the solution in it
**	The second of th
01	Explain Iterative Deepening DFS algorithm with
	an example
(ء	
	of DES & completeness & optimality of BES.
	, ,
	-It finds out best dept limit by groundwally incre
- 11	ene limit until goul is found.
	instead of searching deeply first (DFS) or level
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By level (BFS) ; IDDFS repeatedly rons depth limite It stort with depth limit 0.8 increase gradually. Time complexity: o(ba) space complexity: O(d) completeness yes optimulity: yes 9 E F G suppose we want to find node a starting from node A using: 100fs. 3 Stort with a depth limit of O. Pertorms DES starting from node A. 2) Increase the depth limit to 1 & perform DFS again, but only expand nodes up to depth limit 1 3) Increase the depth limit to 2 & represent the process until the goal node ( is found - sugar sold over that in stroops almost 1941 Le perio viga di are obligares de 186 - In a state of the start was a first and plant with me to historia

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	·
	Explain Hill Climbing algorithm its types &
(03)	Explain full cultures
	Algorithms generally moves up in direction of informed
=)	Alganithma generality value
	search algeration increasing value.  continuously moves towards the direction of increasing
	continuously moves towards
	value until it recules pecule.
	used in optimization problem
	good is to find best possible solutions
	It does not maintain search tree similar to
	1 1 2 2 2 2 2 2
	I stords with initial state, evaluates reaches as
	all by a larger one with hest your
	Terminales when no better neighbouring state.
	Mar
	sholder marina
	ploteou
	State
	3404
×	Tupes i) Simple Hill Climbing:
	consider only immediate best option with
	barbarahing.
	Will thinking
	11) Steepest - Hits Ascense Intil
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11	Stochastic Hill climbing: - Pandonly selects better mour instead of always choosing best.
	Dis-colu
	1) & due to sholder easit see the way out
	2) local maxima problem: algorithm may stop at peak that is not global maxima
	3) ridger troueller: may struggle with shorp slopes or
	4) plateur problem: all neighburing states have same.
	5) bouldvaleing 11 not supported.
(04)	Explain A* with suitable example
	A* is a popular informed search algorithm used for
	finding the shortest puth in a graph.
	- 24 combines the strengths of Dijkstra's Algorithm of
	Greedy Best first search.
	- Et uses the following cost functions.
	f(n) = g(n) + h(n)
	f(n) - Total estimated cost of path though nade
	g(n) -> Actual cost from start node to node n.
	h(n)-> Heuristic estimate of cost from node n to
	9000
	ex.

	Node g(n) h(n) f(n)
	5 0 6
*	A 2 4 6
	B 4 2 6 6 6
	G 6 0 6
	ch. c
	steps 1) stort at s
	closed list ()
*	- Expand S: Add A&B to openlist
	2) Evaluate A
	g(A) = 2, n(A) = 4, f(A) = 6
	3) Evaluate B
	91B)-4, h(B)=2, f(B)=6
	4) Select A & expant it.
	Add G
	g(G)=6, h(G)=0, f(G)=6.
	s) Goal G is reached with total cost 6.
	S) (TOA) G IS TECHNICA BOTTO TOTAL COST O
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